

Yang Yuan

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Objective

Seeking a challenging position as Android Developer, where I will deliver helpful and delightful apps for millions of users, utilizing my hands-on experience of Android SDK with solid computer science background.

Area of Expertise

- Two years' experience of Android app development ([Sears](#)/[Kmart](#));
 - Expertise of location based service, activity recognition and GCM(Google Cloud Messaging);
 - Extensive experience of RESTFul web service call, with json/xml parsing;
 - Experience of persisting text and BLOB in SQLite;
 - Passion for customizing UI and creating animations;
 - Experience of Volley, Retrofit, Ormlite, AQuery, JSoup and other 3rd party libs;
 - Experience of Git/SVN;
 - Bilingual: Chinese, English.

Projects

Geofencing

- Designed and solely implemented **Geofencing** module for Sears/Kmart official apps before Google released its latest location API on 2013 I/O;
 - Developed several key algorithms to make battery consuming imperceptible w/o sacrificing much accuracy of location detection;
 - Integrated **Google Cloud Messaging (GCM)** to receive location and account based push notification of coupons and deals;

In Vehicle Pickup

- Implemented project **IVP (In Vehicle Pickup)** for Sears app, on top of my Geofencing module, which enables customers to complete the entire pickup action on the phone, w/o leaving their vehicles in the parking lot;
 - Integrated GCM to receive push message from store kiosks, cash registers and handheld scanners;
 - Propaganda Video ([link](#))

Personal Shopper

- Implemented both UI and logic part for this innovative independent app, which let customers to browse other retailers websites inside webview of the app, but fulfill the order via Sears platform;
- Parsed webpages of other retailers with HTML parser lib **JSoup**;
- Intercepted URL request/redirection as well as touch events such as AddToCart button click and variations selection;
- Utilized Retrofit as REST client, AQuery as image downloader;

Scan&Share

- Implemented both UI and logic part for project **Scan&Share** for Sears app, which enables customers to save and share products from scanned barcodes;
- Modified ZXing (3rd party scanner lib) to allow multiple scanning;
- Run AsyncTasks in multi-threads to fetch texts and images, which would then be persisted locally in SQLite;

iBeacon

- Integrated 3rd party libs for iBeacon, such as Radius Networks and MobiQuity, then developed my own alternative module.

Education

University of Dayton

Master of Computer Science (Full scholarship)

Nanjing University

Bachelor of Telecommunication Engineering